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APPLICANT : NGK INSULATORS LTD;

INVENTOR : ABE FUMIO;

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TITLE : INORGANIC POROUS MEMBRANE

ABSTRACT : PURPOSE: To eliminate the presence of the pinhole of a membrane by forming a porous membrane on a porous support and setting the support membrane thickness per a time of the porous membrane to 100 times the average particle size of the primary particles of inorg. particles or less.

CONSTITUTION: An inorg. substance composed of oxide or carbide of Ti, Zr, Al or Si having an average pore size of 0.1 μ m or less is dispersed in a solvent mainly composed of water to prepare a suspension. A single-layer or double-layer porous support is immersed in said suspension once or two or more times for a predetermined time to form a membrane on at least one surface of the support. Next, the coated support is dried and baked to prepare an inorg. porous membrane supporting the porous membrane having an average pore size of 0.1 μ m or less. In this case, it is necessary to set the support membrane thickness per a time of the aforementioned porous membrane to 100 times the average particle size of the primary particles in the aforementioned inorg. particles or less.

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